

## CONSTRUCTION PERMIT SUMMARY REPORT

Company Name: Phillips & Jordan, Inc. File Number: 45-0161 Source Point Number(s): 01.

Permit Number(s): 968990P Environmental Protection Specialist Initials AY.

Application Received (date): 07/15/16/14 Application Complete (date): 08/12/14.

Air Quality Analysis Performed? Yes ☐ No ☒

Briefly describe the project: (new source, modifications) (what the process is) (type controls proposed) (emissions expected, qualitative) (replacing what sources) (background information)

This source is a Temporary portable continuous mix plant for producing Roller Compacted Concrete (RCC) at TVA Cherokee Dam location. This source will consist of a 45 ton cement silo, a 50 ton fly ash silo, and a QSC8.3 diesel engine. Fabric filters are used as control devices for silos.

### Rules Analysis

Title V ☐ Cond. Major Minor ☒ Source category listed in 1200-03-09-.01(4)(b)1.(i)? Yes ☐ No ☒

Reason for PSD: New source above ____ TPY	<input type="checkbox"/>	Sig. increase in ____ emissions	<input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Applicable NSPS: 40 CFR Part 60, Subpart ____	<input type="checkbox"/>	State Rule 1200-03-16-____	<input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Applicable NESHAP: 40 CFR Part 61, Subpart ____	<input type="checkbox"/>	State Rule 1200-03-11-____	<input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
40 CFR Part 63, Subpart ____	<input type="checkbox"/>	State Rule 1200-03-31-____	<input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

### Other Applicable State Rules

TSP Emissions: 1200-03-07-_.04(1) <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	NO <sub>x</sub> Emissions: 1200-03-07-_. ____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
SO <sub>2</sub> Emissions: 1200-03-07-_. ____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Lead Emissions 1200-03-_. ____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
CO Emissions: 1200-03-07-_. ____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Emissions: 1200-03-_. ____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
VOC Emissions: 1200-03-07-_. ____ <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Emissions: 1200-03-_. ____ <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

Visible Emissions from the source not to exceed 20 % opacity per Method 9 (Rule 1200-03-05-.01(1) & (Rule 1200-03-05-\_.03(6))

Comments: \_\_\_\_\_

## Emission Summary

Permit No. 968990P

Source Status: New X Modification\_\_\_ Expansion\_\_\_ Relocation\_\_\_ Permit Status: New X Renewal  
 PSD\_\_\_ NSPS\_\_\_ NESHAPS\_\_\_ Previous Permit No.: Construction\_\_\_ Operating

	Pounds/Hour			Tons/Year				Date Data	*	Applicable Standard 1200-03-
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change			
*TSP	0.02	0.2	0.2	0.015	0.88	0.88		08/15/14		07-.04(1)
SO <sub>2</sub>										
CO										
VOC										
NO <sub>x</sub>										

\* Source of data: Construction permit application dated 07-15-2014.

$41.73 - 0.02 = 41.71$  lbs/hr fugitive

$41.7 \text{ lbs/hr} \times 1520 \text{ hrs/yr} / 2000 \text{ lb/tons} = 3.2 \text{ tons/year}$ ,  $3.2 \text{ tons/year} \times 4.38 = 182.6 \text{ tons/year}$

Each Silo  $0.02 \text{ gr/dscf} \times 530 \text{ ft}^3/\text{min.} \times 60 \text{ m/hr} \times 1 \text{ lb}/7000 \text{ gr} = 0.1 \times 2 = 0.2 \text{ lb/hr}$  for both silos.

$0.02 \times 1520/2000 = 0.015 \text{ Tons/year}$ .

ENGINEERING PROGRAM AY DATE August 26, 2014